

d his full

(FILE 'HOME' ENTERED AT 12:41:00 ON 16 JAN 2004)

FILE 'SCISEARCH' ENTERED AT 12:41:41 ON 16 JAN 2004

L1 0 SEA ABB=ON PLU=ON SHORROSH BS/RAU (S)18/RVL (S)151/RPG
L2 0 SEA ABB=ON PLU=ON SHORROSH B/RAU (S)18/RVL (S)151/RPG

FILE 'AGRICOLA, BIOSIS, CAPLUS, CABA' ENTERED AT 12:44:59 ON 16 JAN 2004

L3 4990 SEA ABB=ON PLU=ON ALPHA GLOBULIN
L4 1124506 SEA ABB=ON PLU=ON (TRANSFORM? OR TRANSGEN? OR AGROBACTER? OR
BIOLISTIC OR BOMBARD?)
L5 5669764 SEA ABB=ON PLU=ON (PLANT OR ARABIDOPSIS OR CORN OR MAIZE OR
L6 9 SEA ABB=ON PLU=ON L3(P) L4(P) L5
L7 4 DUP REM L6 (5 DUPLICATES REMOVED)
D 1-4 TI
D 2 IBIB ABS
L8 423 SEA ABB=ON PLU=ON (JUNG, RUDOLF OR JUNG, R OR JUNG R)/AU
L9 4 SEA ABB=ON PLU=ON L8 AND L3
L10 1 DUP REM L9 (3 DUPLICATES REMOVED)
D IBIB ABS

FILE HOME

FILE SCISEARCH

FILE COVERS 1974 TO 12 Jan 2004 (20040112/ED)

FILE AGRICOLA

FILE COVERS 1970 TO 15 Dec 2003 (20031215/ED)

Compiled and distributed by the National Agricultural Library
of the Department of Agriculture of the United States of
America. It contains copyrighted material. All rights
reserved. (2004)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

FILE BIOSIS

FILE COVERS 1969 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 14 January 2004 (20040114/ED)

FILE RELOADED: 19 October 2003.

FILE CAPLUS

Copyright of the articles to which records in this database refer is
held by the publishers listed in the PUBLISHER (PB) field (available
for records published or updated in Chemical Abstracts after December
26, 1996), unless otherwise indicated in the original publications.
The CA Lexicon is the copyrighted intellectual property of the
American Chemical Society and is provided to assist you in searching
databases on STN. Any dissemination, distribution, copying, or storing
of this information, without the prior written consent of CAS, is
strictly prohibited.

FILE COVERS 1907 - 16 Jan 2004 VOL 140 ISS 4
FILE LAST UPDATED: 15 Jan 2004 (20040115/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE CABA

FILE COVERS 1973 TO 12 Jan 2004 (20040112/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

The CABA file was reloaded 7 December 2003. Enter HELP RLOAD for details.

=> s (jung, rudolf or jung, r. or jung r)/au
L1 423 (JUNG, RUDOLF OR JUNG, R. OR JUNG R)/AU

=> s globulin
L2 166653 GLOBULIN

=> s l1 and l2
L3 46 L1 AND L2

=> dup rem l3
PROCESSING COMPLETED FOR L3
L4 21 DUP REM L3 (25 DUPLICATES REMOVED)

=> d 1-21 ti

L4 ANSWER 1 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
TI Methods of increasing accumulation of foreign proteins in plant storage organs by lowering vacuolar processing proteinase levels

L4 ANSWER 2 OF 21 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN DUPLICATE 1
TI Redundant proteolytic mechanisms process seed storage proteins in the absence of seed-type members of the vacuolar processing enzyme family of cysteine proteases.

L4 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
TI Maize opaque endosperm mutations create extensive changes in patterns of gene expression

L4 ANSWER 4 OF 21 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 2
TI Processing and assembly in vitro of engineered soybean beta-conglycinin subunits with the asparagine-glycine proteolytic cleavage site of 11S **globulins**.

L4 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
TI Hypoallergenic transgenic soybeans with selectively suppressed-vacuolar allergens

L4 ANSWER 6 OF 21 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN DUPLICATE 3
TI Genomics analysis of genes expressed in maize endosperm identifies novel seed proteins and clarifies patterns of zein gene expression.

L4 ANSWER 7 OF 21 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 4
TI Expression of human milk fat **globulin** proteins in cells of haemopoietic origin.

L4 ANSWER 8 OF 21 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN DUPLICATE 5
TI The role of proteolysis in the processing and assembly of 11S seed **globulins**.

L4 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
TI Alteration of amino acid composition of seed by altering levels of expression of endogenous genes and amino acid composition of gene products

L4 ANSWER 10 OF 21 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2004) on STN DUPLICATE 6

TI Role of the sulfhydryl redox state and disulfide bonds in processing and
assembly of 11S seed **globulins**.

L4 ANSWER 11 OF 21 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2004) on STN DUPLICATE 7

TI Adenosine 5'-triphosphate is required for the assembly of 11A seed
proglobulins in vitro.

L4 ANSWER 12 OF 21 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

TI An Asn-specific cysteine endopeptidase processes prolegumin and transforms
it into mature legumin hexamers for vacuolar deposition in storage tissue
cells of legume seeds.

L4 ANSWER 13 OF 21 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 8

TI Synthesis and assembly of 11S **globulins**.

L4 ANSWER 14 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 9

TI Stable expression of vicilin from Vicia faba with eight additional single
methionine residues but failure of accumulation of legumin with an
attached peptide segment in tobacco seeds

L4 ANSWER 15 OF 21 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

TI Assembly and processing of 11S **globulins**.

L4 ANSWER 16 OF 21 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2004) on STN DUPLICATE 10

TI Site-specific limited proteolysis of legumin chloramphenicol acetyl
transferase fusions in vitro and in transgenic tobacco seeds.

L4 ANSWER 17 OF 21 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2004) on STN DUPLICATE 11

TI A protease responsible for post-translational cleavage of a conserved
Asn-Gly linkage in glycinin, the major seed storage protein of soybean.

L4 ANSWER 18 OF 21 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

TI ARE SS-BRIDGE FORMATION AND ALPHA-BETA-CHAIN CLEAVAGE PREREQUISITES FOR
12S **GLOBULIN** PROPOLYPEPTIDE TRANSFER INTO PROTEIN BODIES OF
VICIA-FABA SEEDS.

L4 ANSWER 19 OF 21 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

TI THE STRUCTURAL BASIS OF **GLOBULIN** TARGETING TO PROTEIN BODIES IN
COTYLEDON CELLS OF DEVELOPING VICIA-FABA SEEDS.

L4 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN

TI Construction of new plant genes and their transfer into plants

L4 ANSWER 21 OF 21 CABA COPYRIGHT 2004 CABI on STN

TI Molecular characterization of Vicia faba storage protein specific DNA.

1 423 S (JUNG, RUDOLF OR JUNG, R. OR JUNG R)/AU
L2 166653 S GLOBULIN
L3 46 S L1 AND L2
L4 21 DUP REM L3 (25 DUPLICATES REMOVED)

=> s 18kD

L5 53 18KD

=> s 15 and 12

L6 1 L5 AND L2

=> d ibib abs

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:240163 CAPLUS

DOCUMENT NUMBER: 120:240163

TITLE: Purification and analyses of cockatiel seed proteins

AUTHOR(S): Xu, Lei; Hou, Hao

CORPORATE SOURCE: Lab. Mol. Biol., Northwest. Agric. Univ., Xianyang,
712100, Peop. Rep. China

SOURCE: Tianran Chanwu Yanjiu Yu Kaifa (1993), 5(2), 53-8

CODEN: TCYKE5; ISSN: 1001-6880

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

AB The storage protein from cockatiel seed which dried and defated were analyzed by SDS-PAGE Lowry method and Kjeldal method. The protein content was high (26.04%) and contained albumin : **globulin** : prolamin : gluten (11.5 : 72 : 4.5 : 12). The major protein compn. of cockatiel seed is polypeptides, MW of 20KD. Two-dimensional SDS-PAGE showed the presence of polypeptides of mol. wts. 58, 37, 20, 39, 24.5 and **18KD**. The **globulin** polypeptide, MW of 23KD, is sensitive to heat

→ only ref w/ globulin + 18KD
isolated
* the 18KD globulin is nearly
found